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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 12

Complete if Known

Application Number	09/504,239
Filing Date	February 15, 2000
First Named Inventor	Davis et al.
Group Art Unit	2625
Examiner Name	J. Patel
Attorney Docket Number	60114

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number				
	1	3984624	Waggener	Oct., 1976		
	2	4296326	Haslop et al.	Oct., 1981		
	3	4297729	Steynor et al.	Oct., 1981		
	4	4313197	Maxemchuk	Jan., 1982		
	5	4379947	Wamer	Apr., 1983		
	6	4395600	Lundy et al.	Jul., 1983		
	7	4528588	Lofberg	Jul., 1985		
	8	4547804	Greenberg	Oct., 1985		
	9	4618257	Bayne et al.	Oct., 1986		
	10	4672605	Hustig et al.	Jun., 1987		
	11	4675746	Tetrick et al.	Jun., 1987		
	12	4855827	Best	Aug., 1989		
	13	4908836	Rushforth et al.	Mar., 1990		
	14	4969041	O'Grady et al.	Nov., 1990		
	15	5040059	Leberl	Aug., 1991		
	16	5062666	Mowry et al.	Nov., 1991		
	17	5216724	Suzuki et al.	Jun., 1993		
	18	5243423	DeJean et al.	Sep., 1993		
	19	5291243	Heckman et al.	Mar., 1994		
	20	5321470	Hasuo et al.	Jun., 1994		
	21	5374976	Spannenburg	Dec., 1994		
	22	5416307	Danek et al.	May, 1995		
	23	5469222	Sprague	Nov., 1995		
	24	5521722	Colvill et al.	May, 1996		
	25	5530759	Braudaway et al.	Jun., 1996		
	26	5568550	Ur	Oct., 1996		
	27	5598526	Daniel et al.	Jan., 1997		
	28	5617119	Briggs et al.	Apr., 1997		
	29	5636292	Rhoads	Jun., 1997		
	30	5652626	Kawakami et al.	Jul., 1997		
	31	5663766	Sizer, II	Sep., 1997		
	32	5664018	Leighton	Sept., 1997		
	33	5710636	Curry	Jan., 1998		
	34	5719939	Tel	Feb., 1998		
	35	5727092	Sandford, II et al.	Mar., 1998		

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Sheet **2**

of

13

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		Number				
	36	5735547	Morelle et al.	Apr., 1998		
	37	5745604	Rhoads	Apr., 1998		
	38	5790693	Graves et al.	Aug., 1998		
	39	5790697	Munro et al.	Aug., 1998		
	40	5809160	Powell et al.	Sep., 1998		
	41	5817205	Kaule	Oct., 1998		
	42	5819289	Sandford, li et al.	Oct., 1998		
	43	5862218	Steinberg	Jan. 1999		
	44	5862260	Rhoads	Jan., 1999		
	45	5871615	Harris	Feb., 1999		
	46	5893101	Balogh et al.	Apr., 1999		
	47	5898779	Squilla et al.	Apr., 1999		
	48	5905810	Jones et al.	May, 1999		
	49	5933798	Linnartz	Aug., 1999		
	50	5949055	Fleet et al.	Sep., 1999		
	51	5991426	Cox et al.	Nov., 1999		
	52	6064764	Bhaskaran et al.	May, 2000		
	53	6168750	Negishi	Dec., 2000		
	54	6252963	Rhoads	Jun., 2001		
	55	6314457	Schena et al.	Nov., 2001		
	56	6343138	Rhoads	Jan., 2002		
	57	6345104	Rhoads	Feb., 2002		
	58	6427020	Rhoads	Jul., 2002		
	59	6439465	Bloomberg	Aug., 2002		
	60	6449377	Rhoads	Sep., 2002		
	61	6505160	Levy et al.	Jan., 2003		
	62	6512837	Ahmed	Oct., 2000		
	63	6522770	Seder et al.	Feb., 2003		
	64	6522771	Rhoads	Feb., 2003		
	65	6549638	Davis et al.	Apr., 2003		
	66	6574350	Rhoads et al.	Jun., 2003		
	67	6577746	Evans et al.	Jun., 2003		
	68	6580819	Rhoads	Jun., 2003		
	69	2001/0028725	Nakagawa et al.	Oct., 2001		
	70	2001/0028727	Naito et al.	Oct., 2001		

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Sheet 3

of

34

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		Number				
[Signature]	71	2002/0009208	Alattar et al.	Jan., 2002		
	72	2002/0010684	Moskowitz	Jan., 2002		
	73	2002/0023148	Ritz et al.	Feb., 2002		
	74	2002/0037091	Terasaki	Mar., 2002		
	75	2002/0075298	Schena et al.	Jun., 2002		
PATENT APPLICATION DOCUMENTS						
[Signature]	1	60/071,983	Levy	1/20/98		
	2	60/114725	Levy	12/31/98		
	3	60/116641	Cookson	1/21/99		
	4	60/198,138	Alattar	4/17/00		
	5	09/185380	Davis et al.	11/3/98		
	6	09/234780	Rhoads et al.	1/20/99		
	7	09/404291	Levy	9/23/99		
	8	09/428359	Davis et al.	10/28/00		
	9	09/465,418	Rhoads et al.	12/16/99		
	10	09/478713	Cookson	1/6/00		
	11	09/504,239	Davis et al.	2/15/00		
	12	09/562524	Carr et al.	5/1/00		
	13	09/574726	Rhoads et al.	5/18/00		
	14	09/625,577	Carr et al.	7/25/00		
	15	09/645779	Tian et al.	8/24/00		
	16	09/689250	Brunk	10/11/00		
	17	09/689293	Tian et al.	10/11/00		
	18	09/761349	Rhoads	1/16/01		
	19	09/765102	Shaw	1/17/02		

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Sheet 4 of 45

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FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴					
J	1	EP.	642 060		Aug., 1995			
	2	EP.	789 480		Aug., 1997			
	3	EP	975 147	(copy enclosed)	Jan., 2000			
	4	WO.	WO95/04665		Feb., 1995			
	5	WO.	WO97/43736		Nov., 1997			
	6	WO.	WO98/20411	(copy enclosed)	May, 1998			
	7	WO.	WO99/36876		Jul., 1999			
	8	WO.	WO00/44131		Jul., 2000			
	9	WO.	WO01/80169		Oct., 2002			

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Sheet 5 of 5


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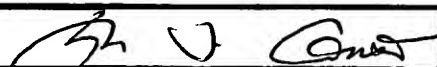
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	Audio Watermarking Architectures for Secure Digital Music Distribution, A Proposal to the SMDI Portable Devices Working Group by ARIS Technologies, Inc, Mar. 26, 1999, pp. 1-11.	
	2	Audio Watermarking Architectures for Persistent Protection, Presentation to SDMI PDWG, Mar. 29, 1999, J. Winograd, Aris Technologies, pp. 1-16.	
	3	Audio Watermarking System to Screen Digital Audio Content for LCM Acceptance, A Proposal Submitted in Response to PDWG99050504-Transition CIP by ARIS Technologies, Inc., May 23, 1999, Document Version 1.0, 15 pages.	
	4	Boland et al., "Watermarking Digital Images for Copyright Protection", Fifth Int'l Conference on Image Processing and it's Application, Jul. 1995, pp. 326-330.	
	5	Cookson, Chris, General Principles of Music Uses on Portable Devices, presented to SDMI, Mar. 5, 1999.	
	6	Dautzenberg, "Watermarking Images," Department of Microelectronics and Electrical Engineering, Trinity College Dublin, 47 pages, Oct. 1994.	
	7	Levy, "AIPL's Proposal for SDMI: An Underlying Security System" (slide presentation), Mar. 29, 1999, 23 slides.	
	8	Microsoft Response to CIP for Technology Solutions to Screen Digital Audio Content for LCM Acceptance, SDMI, PDWG Tokyo, May 23, 1999, 9 pages.	
	9	Response to CIP for Technology Solutions to Screen Digital Audio Content for LCM Acceptance, NTT Waveless Radio Consotium, May 23, 1999, 9 pages.	
	10	Sandford II et al., "The Data Embedding Method", Proceedings of the SPIE vol. 2615, pp. 226-259, 1996.	
	11	Thomas, Keith, Screening Technology for Content from Compact Discs, May 24, 1999, 11 pages.	
	12	Vidal et al., "Non-Noticeable Information Embedding in Color Images: Marking and Detection", IEEE 1999, pp. 293-297.	
	13	Winograd, J.M., "Audio Watermarking Architecture for Secure Digital Music Distribution," a Proposal to the SDMI Portable Devices Working Group, by Aris Technologies, Inc., Mar. 26, 1999.	
	14	Wolfgang et al., "A Watermark for Digital Images," Computer Vision and Image Processing Laboratory, Purdue, University, Sep. 1996, pp. 219-222.	

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